

IDR RID Report

Date Last Modified 12/7/95

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Organization

E Mail Address

Document Science Data Processing Sizing

Phone No

RID ID IDR 15

Review IDR

Originator Ref

Priority 2

Section

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Figure Table

Category Name Hardware

Actionee ECS

Sub Category

Subject Push side sizing

Description of Problem or Suggestion:

Basis for provided capacities is not clear.

Originator's Recommendation

At CDR, provide a clear exposition on the basis for provided hardware (CPU, Disk, Associated I/O) capacities, including:

Average peak utilization profiles predicted by models, with error bars or various capacity margin (e.g. to allow for ops problems or variances)

Ability to rapidly increase hardware capacities if "at launch" science software requirements are greater than expected, or if initial testing shows I/O or staging disk bottlenecks.

GSFC Response by:

GSFC Response Date

HAIS Response by: Miller

HAIS Schedule 11/15/95

HAIS R. E. Armstrong

HAIS Response Date 11/28/95

At Release-B CDR, ECS will state the hardware to be provided for Science Data Processing at each DAAC, and will provide a clear exposition of the basis for the hardware selection. This exposition will include utilization profiles for configured resources (CPU, disk, and networks). These profiles will show utilization over an extended period (approximately 30 days), to show the day by day variation in resource demand. Marginal capacity, the difference between predicted demand and system design capacity, will be shown. The CDR materials will include a discussion of the expansion and upgrade paths available to rapidly increase the capacity of the Science Data Processing hardware if such expansion becomes necessary.

This information will be provided in revisions to the Design Specifications for the DAACs, volumes 305-CD-030 through 305-CD-037, which will be re-issued at CDR. A subset of this large volume of information will be presented at CDR.

Status Closed

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***** Attachment if any *****